

### Appendix 3 – Actions, Measures, Works Programmes and Funding

#### FWMA Duties, Powers and other Actions that achieve our Local Strategy Objectives

LFRMS Objective	Potential Action	Description	Lead Body / Partners	Funding Options
3,4	<b>Asset Management Plan (Drainage)</b>	An Asset Management Plan (AMP) is a tactical plan for managing an organisation's infrastructure and other assets to deliver an agreed standard of service.	HBC UU EA	HBC
2,3	<b>Asset Register</b>	The Council has a duty to maintain a register of structures or features, which are considered to have an effect on a flood risk. Including details on ownership and condition as a minimum.	HBC	HBC
3,4,5	<b>Best practice guidance</b>	Halton Borough Council will follow published best practice guidance when undertaking actions/duties in relation to flood risk.	HBC	N/A
3,5	<b>Bye-laws</b>	The FWMA amends Section 66 of the Land Drainage Act to allow local authorities to make byelaws for the following purposes: <ul style="list-style-type: none"> <li>• To secure the efficient working of a drainage system in its area;</li> <li>• To regulate the effects of a drainage system on the environment;</li> <li>• To secure the effectiveness of flood risk management work (carried out under either the FWMA or the LDA)</li> </ul>	HBC	HBC
3,5	<b>Checking and approval of new development drainage designs</b>	Halton Borough Council will continue to check and pass comment in line with best practice guidance with regard to drainage on key planning applications up until SuDS is enacted when the framework will take over.	HBC / UU & EA	HBC
1,3	<b>Communication Strategy: Newsletters; Council website; Social Media; Community Engagement</b>	A draft Communications' Strategy document has been prepared which states how Halton Borough Council will communicate with stakeholders in relation to its flood risk activities.	HBC	HBC
3,5	<b>Consenting on ordinary watercourses</b>	Under the Land Drainage Act 1991 certain types of work within a watercourse may not be permitted due to the potential increase in flood risk. In order to allow work to take place Halton Borough Council can issue consent for a proposed scheme by checking that it does not increase the risk of flooding and that it does not adversely affect the environment.	HBC	HBC (via fee structure)
2,3	<b>Designation of 3rd Party Assets</b>	The Council as well other flood management authorities have powers to designate structures and features that affect flooding or coastal erosion in order to safeguard assets that are relied upon for flood or coastal erosion risk management.	HBC	HBC

1,2,3,4	<b>Duty to co-operate</b>	The FWMA places a duty on risk management authorities to cooperate with one another. Co-operation between flood and coastal erosion risk management authorities is important because of the mutual benefits they can gain from working together and sharing information	All Partners	N/A
3,4,5	<b>Enforcement on ordinary watercourses</b>	The enactment of the FWMA transfers enforcement powers on ordinary watercourse from the Environment Agency to Local Authorities. The aims of enforcement in flood risk management are to ensure the proper flow of water in a watercourse and over the floodplain; the control of water levels and the security of existing assets.	HBC	HBC
1,3,4	<b>Engage with partner risk management authorities</b>	The council will seek to engage with partner risk management organisations in order to share knowledge and best practice in order to achieve the best possible results.	HBC / EA / UU	N/A
1,3,4,5	<b>Engage with riparian land owners</b>	Halton will seek to engage with riparian land owners in order to inform them of their duties and responsibilities and to actively encourage them to undertake them with the aim of avoiding enforcement action.	HBC	N/A
1,3,4	<b>Engagement with communities at risk of flooding: -Parish Councils -Community Groups</b>	Communities often lack the support and expertise to improve their own flood resilience. By working together, with local communities and emergency services, we can make significant strides towards reducing the impact, disruption and trauma of a flood.	Dependent on source of flooding.	N/A
2,3,4	<b>Flood mapping / modelling</b>	Where necessary and appropriate, HBC and partner organisations will undertake flood mapping / modelling in order to aid our understanding of the mechanisms which lead to an area flooding.	HBC EA UU	HBC EA Grant bids
1,3	<b>Flood warning service</b>	The Environment Agency offers a free flood warning service for many areas at risk of flooding from rivers and the sea. The warnings can give advance notice of when flooding from rivers and the sea is likely to happen and allow time for residents to prepare. Halton Borough Council where appropriate will promote the Flood Warning Service to residents.	EA	N/A
2,3,4	<b>Identification of critical assets</b>	As part of the Councils duty to maintain a register of structures or features, which are considered to have an effect on flood risk. The Council will also identify assets which play a significant role in flood risk management.	HBC	HBC
1,2,3,4	<b>Investigations</b>	The Council has a duty to co-ordinate the investigation and recording of significant flood events within their area. This duty includes identifying which authorities have flood risk management functions and what they have done or intend to do with respect to the incident, notifying risk management authorities where necessary and publishing the results of any investigation carried out.	HBC	HBC

1,2,3,4	<b>Joint funded / identified schemes (Partnership working)</b>	All partner organisations will endeavour to work together where appropriate to achieve the best possible outcomes.	All Partners	All Partners Grant bids
1,2,3,4, 5	<b>LFRMS</b>	The Council is required to develop, maintain, apply and monitor a local strategy for flood risk management in its area. The local strategy will build upon information such as national risk assessment and will use consistent risk based approaches across different local authority areas and catchments.	HBC	HBC
2,3	<b>Power to request information</b>	Under section 14 of the FWMA, Halton Borough Council and Environment Agency have the power to request information relevant to flood risk management. Where deemed appropriate HBC will use this power.	HBC EA	HBC EA
2	<b>Recording and reporting of flood incidents</b>	The Council will record all flood incidents which are reported to the flood risk management team and where appropriate report on the incident.	HBC	HBC
3	<b>Site specific flood response plans</b>	Flood response plans for known at risk locations within the Borough enable a more targeted use of resources should a flood occur, they should state who will respond and how.	HBC EA UU	All RMA partners
3,5	<b>Spatial planning policy</b>	Planning policy influences what can be built and where, planning policy is key to deciding where appropriate development should be sited.	HBC	HBC

#### How studies influence the Objectives within the Local Strategy

<b>LFRMS Objective</b>	<b>Potential Action</b>	<b>Description</b>	<b>Lead Body / Partners</b>	<b>Funding Options</b>
2,3	<b>Strategic Flood Risk Assessments</b>	There is a level 2 SFRA in place which was undertaken in 2011 by Planning Policy. The SFRA allows for application of the sequential test as set out in the NPPF. Halton Borough Council will update the SFRA as necessary to ensure an up to date and best informed knowledge base to undertake assessment of planning applications.	HBC	HBC
2,3,4	<b>Surface Water Management Plans</b>	A Surface Water Management Plan (SWMP) is a plan which outlines the preferred surface water management strategy in a given location. Where appropriate/necessary HBC has undertaken a preliminary stage SWMP study covering the whole Borough	HBC	HBC
3,4,5	<b>Sustainable Drainage Systems Frameworks</b>	The Council is designated the SuDS Approval Body (SAB) for any new drainage system, and therefore must approve, adopt and maintain any new sustainable drainage systems (SuDS) within their area. (subject to implementation of this part of the legislation)	HBC	HBC
1	<b>Website Flood Risk Content Update</b>	As a key communication tool for information regarding flood risk it is important that the borough website is accurate. Halton Borough Council is currently in the process of updating the information on the website.	HBC	HBC

## Preliminary Maintenance and Works Identification

Location	Problem	Potential Cause	Potential Solution (Medium Term)	Long Term or Additional Works	Responsible Authority	Possible Funding
Peel House Lane & St. Anne's Road, Widnes	Flash flooding to properties SW runoff	Overflows from surface water drainage system	Improve property flood resilience  Confirm capacity and condition of installed attenuation tank	Local drainage system improvements  Remodel ground levels	Halton Borough Council	Halton Borough Council  FDGiA grant
Compass Close, Runcorn	Flooding in low point in Compass Close will inundate surrounding houses	Threshold levels below surrounding ground levels in some cases	Prioritise gully cleaning  Improve property flood resilience  FDGiA funding granted in 2012/13 MTP	Remodel existing ground levels	Halton Borough Council	Halton Borough Council  FDGiA grant
Kingsway & Milton Road, Widnes	Flash flooding to properties	Police Station and Leisure Centre (Loading Bay) have minimal thresholds and will be affected by highway flooding	Improve property flood resilience	Remodel existing ground levels to divert flow away from buildings	Halton Borough Council	Halton Borough Council  FDGiA grant  Halton Housing Trust
Brynn Street & Quinn Street, Widnes	Flooding in low point at junction between Brynn Street and Quinn Street	Topography of development	Prioritise gully cleaning  Improve property flood resilience	Remodel existing ground levels	Halton Borough Council	Halton Borough Council  FDGiA grant  Halton Housing Trust
Fairhaven Road, Widnes	Flash flooding to properties	Overflows from surface water drainage system and manhole at bottom of dip in road overflows	Local drainage system improvements  Improve property flood resilience	Remodel ground levels	Halton Borough Council	Halton Borough Council  RFCC
Cradley & Radnor Drive, Widnes	Potential SW flooding of school and neighbouring properties	Topography of development	Develop hydraulic model to map SW flooding of school and neighbouring properties	Full detail study required	Halton Borough Council	Halton Borough Council  RFCC
Castlefields Avenue South, Runcorn	Flash flooding to properties from adjacent highway	Houses adjacent to steep embankment with thresholds <50mm	Improve property flood resilience	Remodel existing ground levels	Halton Borough Council	Halton Borough Council  Environment Agency

Location	Problem	Potential Cause	Potential Solution (Medium Term)	Long Term or Additional Works	Responsible Authority	Possible Funding
Bridgeway & Lockgate, Runcorn	Flash flooding to properties from highway SW runoff	Houses adjacent to embankment with 180mm thresholds  Topography of development	Improve property flood resilience  FDGiA allocation in 2013/14 for investigation/study	Local drainage system Improvements  Remodel ground levels	Halton Borough Council	Halton Borough Council  FDGiA grant
Mottershead Road & Milton Road, Widnes	Flash flooding to properties	Flow paths around buildings channel water into properties	Improve property flood resilience  FDGiA funding granted in 2012/13 MTP – 4 properties protected	Remodel existing ground levels	Halton Borough Council	Halton Borough Council  Environment Agency
Bradley Way, Widnes	Flash flooding to properties	Deep flooding likely to affect buildings with thresholds up to 500mm	Improve property flood resilience	Remodel existing ground levels	Halton Borough Council	Halton Borough Council  Environment Agency
Halton Lea, Runcorn	Flash flooding to properties	Threshold levels of plant room facilities of commercial properties likely to be affected by flooding	Inform property owners	Remodel existing ground levels	Halton Borough Council	Halton Borough Council  Environment Agency
Cow Hey Lane, Runcorn	Flash flooding to properties	Low building threshold levels	Confirm building threshold levels	Improve property flood resilience  Remodel ground levels	Halton Borough Council	Halton Borough Council  Environment Agency

## Draft Maintenance Programme

Asset	Action	Status	Solution Medium Term	Solution Long Term or Additional Works	Authority	Possible Funding
Gully Cleansing	Regular gully cleansing aligned to SW Risk Maps and S38 adoptions	Actioned	Programme continually reviewed and amended	Risk based system of maintenance	Halton Borough Council	Halton Borough Council
Culvert Screens	Regular inspection of culvert screens at high risk locations identified from previous flood incidents	Programme developed from historical knowledge and results from culvert blockage sensitivity testing	Programme continually refined as asset management registers develop	Intelligence and risk based system of maintenance  Replacement of screens identified as deficient	Halton Borough Council	Halton Borough Council
Asset Inspection	Regular inspection of assets at high risk locations identified from SWMP	High risk locations identified from SWMP	Programme frequency and locations refined as asset management registers develop	Riparian land owners will require identifying	Halton Borough Council	Halton Borough Council

The following schemes have been awarded FDGiA funding in the current 2014/15 MTP:

Halton Scheme		2014/15	2015/16	2016/17	2017/18	2018/19
Bridgeway and Lockgate, Runcorn Flood Alleviation Scheme	Estimated scheme cost in year (£k)	63	63	93	93	
	Indicative FDGiA / Local Levy Allocation (£k)	53	53	74	0	
Compass Close, Runcorn Flood Alleviation Scheme	Estimated scheme cost in year (£k)	33	13			
	Indicative FDGiA Allocation (£k)	30	10			
Pitville Terrace, Widnes Flood Alleviation Scheme	Estimated scheme cost in year (£k)	0	25	25		
	Indicative FDGiA / Local Levy Allocation (£k)	0	7	7		